

SUPPLEMENTARY MACHINE SERVICE BULLETIN #40C

SUBJECT: Explanation of
adjustments KAA Models
1 and 2 series.

DATE: April 9, 1927.

TO ALL OFFICES:

If a multiplier key is operated and no pressure is applied to the depressed key, and the key restores, but machine multiplies more times than the depressed key indicates.

1st Cause:

The adjustable extension 1345 on trip lifter 1321 does not unlatch from the lug of trip lifter latch 1308, Plates 35A and 44, Machine Service Bulletin No. 40.

Remedy:

Adjust so there is about .005 clearance between the point of the adjustable extension 1345 and the latching lug of the trip lifter latch 1308, when the shutter box and associated parts 13-30 (Plate 45) are in neutral position. See also description of the functioning of this latch, Plate 32, Figure 8 and Plate 33, Figures 14 and 16.

After making the above adjustments, if the machine continues to fail the cause may be as follows:

Explanation:

When a multiplier key is depressed, trip lifter 1321 lifts pin 1270 (Plate 40); then the adjustable extension 1345 latches on the lug of trip lifter latch 1308. (See description on Plate 32, Figure 8.) The machine starts running, and during the first rotation the spring 783 (Plate 40) is tensioned; (the quick stroke sub-latch 723 being pulled down by the quick stroke latch 7-80.) This creates a friction between the latching points of the trip lifter extension 1345 and the trip lifter latch 1308, which friction has to be overcome by the two springs 1014, which are connected between release bar 1311 and right side multiplier frame 1301, Plate 46, group 66, and between bracket 1319 and stud 162 (Plate 45). The spring 1015 between trip lifter 1321 and trip lifter latch 1308 (Plate 43, group 62) also adds to the load to be overcome by the two springs 1014 when the multiplier key restores and shutter box 13-30 (Plate 45) assumes neutral position.

Remedy:

Take two or three coils off the two springs 1014.

Caution:

Do not take any more off than is absolutely necessary, as the additional tension increases the pressure required to depress a multiplier key.

3rd Cause:

The land on the rack 1245 (Plate 45) does not escape out of the notch of the depressed key 1246 (Plate 46, group 65) at the proper time.

Remedy:

Adjust rack shift pawl support 1349 so rack is shifted further to the front when roller 1364 on the rack shifter (Plate 45) is on the high point of the cam 1300 (Plate 44). See also description of the functioning of rack shift pawl (Plate 29).

FMS:H

J. M. Smith
General Service Manager.

Mr. R. W. Suddard,
Toledo, Ohio.

Caution:
Do not take any more off than is absolutely necessary, as
the additional tension increases the pressure required to
depress a multiplier key.

3rd Cause:
The land on the rack 1245 (Plate 45) does not escape out
of the notch of the depressed key 1246 (Plate 46, Group 55)
at the proper time.

Remedy:
Adjust rack shift pawl support 1249 so rack is shifted fur-
ther to the front when roller 1264 on the rack shifts
(Plate 46) is on the high point of the cam 1200 (Plate
44). See also description of the functioning of rack shift
pawl (Plate 59).

General Service Manager.

WMS:H